TABLE OF CONTENTS

CHAPTER 1: PURPOSE AND NEED FOR ACTION	1 1
Introduction	2
Purpose and Need for the Proposed Action. Benefits of the Proposed Action. Decisions to Be Made.	2 2 3
Other Agencies that Have Jurisdiction or Responsibility	4
Public Involvement Process.	5
Issues Identified through Public Scoping, the Draft EA, and Public Meetings That Have Been Evaluated in the Final EA Potential impacts of hunting on bison population size/survival Potential impacts of hunting on bison genetics Humaneness/ethics of hunting bison. Legal issues. Impacts of proposed brucellosis vaccination program on edibility of meat. Logistics of hunting bison. Public safety Exposure of hunters to brucellosis. Property damage (by hunters or by bison during the hunt). Impacts of bison hunters or activities associated with hunting on other species (including threatened and endangered species) Impacts of a recreational bison hunt on activities mandated under the Interagency Bison Management Plan. Problems specifically associated with hunting bison near the boundary of Yellowstone National Park. Economics and social issues not associated with YNP.	7 7 7 8 9 10 10 11 12 12 12
Issues Considered but not Evaluated in the Final EA Use of "natural control" rather than human control of the YNP bison population Bison and elk role in brucellosis transmission Impacts of allowing bison hunts on private ownership and sales of bison. "Citizen's alternative".	14 14 15
Issues raised in scoping, comments on the draft EA, or public meetings but determined to be beyond the scope of this EA. Morality of hunting	15 15 16

Tribal hunting rights in and around YNP	16
Distribution of bison captured by NPS or MDOL	16
Hazing and capture protocols	16
Management of wolves	16
Development of a state bison management plan	17
The role of corruption in driving bison control efforts near YNP	17
Education of ranchers to tolerate bison	17
CHAPTER 2: AFFECTED ENVIRONMENT	18
Introduction	18
History and Status of Bison in the Greater Yellowstone Ecosystem	18
A Review of Bison Hunting in the Yellowstone Park Area	18
Bison Population Status and Distribution	23
Bison Ecology in the Yellowstone Ecosystem	28
Determining optimal bison population size	35
Social and Cultural Environment	36
Economic Environment	37
Threatened and Endangered Species	39
Impacts on Vegetation	40
Impacts on Physical Environment	41
CHAPTER 3: ALTERNATIVES INCLUDING THE PREFERRED	
ALTERNATIVE	42
Introduction	42
Considerations and restrictions common to all alternatives that include hunting	42
Alternatives Considered but not Selected for Analysis Unlimited permits issued via over-the-counter purchase. Limited permits available on a first-come first-serve basis. Preference systems for Native Americans. Permits reserved for primitive weapons. Early fall hunting.	44 45 45 45
Late winter/spring hunting	45

Descriptions of Alternatives Selected for Analysis	4
Alternative 1. No action	4
Implementation	4
How does this alternative address major issues?	4
Impacts on population size/distribution.	4
Impacts on population genetics	4
Humaneness/ethics	. 4
Legality	4
Impacts of proposed brucellosis vaccination program on edibility of meat	4
Logistics of hunting bison	4
Public safety	4
Risk of transmitting brucellosis to hunters	4
Property damage	4
Impacts of bison hunting on other animal species	4
Impacts of a recreational bison hunt on activities mandated under the	7
Interagency Bison Management Plan	4
Problems specifically associated with hunting bison near the boundary of	-7
Yellowstone National Park	4
Economics and social issues not associated with YNP	4
Economics and social issues not associated with 1141	-
Alternative 2. Bison hunting by permit only in a late fall/early winter	
(November 15 – February 15) season limited to areas where bison are	
allowed to remain outside YNP during seasons when contact with cattle is	
unlikely without triggering action (hazing, capture, or shooting) by agencies	
charged with managing bison	4
Implementation	4
How does this alternative address major issues?	4
Impacts on population size/distribution	4
Impacts on population genetics	4
Humaneness/ethics	5
Legality	5
Impacts of proposed brucellosis vaccination program on edibility of meat	5
Logistics of hunting bison	4
Public safety	5
Risk of transmitting brucellosis to hunters	5
Property damage	4
Impacts of bison hunting on other animal species	4
Impacts of a recreational bison hunt on activities mandated under the	-
Interagency Bison Management Plan	5
Problems specifically associated with hunting bison near the boundary of	
Yellowstone National Park	4
Economics and social issues not associated with YNP	4

Alternative 3. Late fall – early winter season (November 15 – February 15),	
limited entry hunt with permits valid for the entire season, and hunting	
open in areas in which bison presence does not trigger agency management	
actions and Zone 3 areas where bison presence is not tolerated (see	
Alternative 2 for details of zone designation)	53
Implementation	53
How does this alternative address major issues?	54
Impacts on population size/distribution	54
Impacts on population genetics	54
Humaneness/ethics	55
Legality	55
Impacts of proposed brucellosis vaccination program on edibility of meat	55
Logistics of hunting bison	55
Public safety	56
Risk of transmitting brucellosis to hunters	56
Property damage	57
Impacts of bison hunting on other animal species	57
Impacts of a recreational bison hunt on activities mandated under the	
Interagency Bison Management Plan	57
Problems specifically associated with hunting bison near the boundary of	٠.
Yellowstone National Park	57
Economics and social issues not associated with YNP	58
Economics and social issues not associated with 1111	20
Alternative 4. Late fall – early winter season (November 15 – February 15)	
for a limited entry hunt with permits valid for 10-day intervals	58
Implementation	58
How does this alternative address major issues?	59
Impacts on population size/distribution	59
Impacts on population genetics	59
Humaneness/ethics	60
Legality	60
Impacts of proposed brucellosis vaccination program on edibility of meat	60
Logistics of hunting bison	61
Public safety	61
Risk of transmitting brucellosis to hunters	62
Property damage	62
Impacts of bison hunting on other animal species	62
Impacts of vison naming on other animal species Impacts of a recreational bison hunt on activities mandated under the	
Interagency Bison Management Plan	62
Problems specifically associated with hunting bison near the boundary of	
Yellowstone National Park	63
Feonomics and social issues not associated with YNP	63

CHAPTER 4: CONSEQUENCES OF ALTERNATIVES INCLUDING THE	
PREFERRED ALTERNATIVE	6
Introduction	6
Methods	6
Alternative 1: No Action	6
Biological and Physical Environment	6
Cultural/Social Environment	6
Economic Impacts	6
Legal and Economic Impacts for MFWP	(
Overall impacts (short, medium, long term, and cumulative effects)	(
Mitigation needed	(
Irretrievable commitments	(
Alternative 2: Bison hunting by permit only in a late fall/early winter	
(November 15 to February 15) season limited to areas where bison are	
allowed to remain outside YNP during seasons when contact with cattle	
is unlikely without triggering action (hazing, capture, or shooting) by	
agencies charged with managing bison	
Biological and Physical Environment	
Cultural/Social Environment	
Economic Impacts	
Legal and Economic Impacts for MFWP	
Overall impacts (short, medium, long term, and cumulative effects)	
Mitigation needed	
Irretrievable commitments	
Alternative 3: (Preferred Alternative) Late fall – early winter season	
(November 15 – February 15), limited entry hunt with permits valid for	
the entire season, and hunting open in areas in which bison presence does	
not trigger agency management actions and Zone 3 areas where bison	
presence is not tolerated	
Biological and Physical Environment	
Cultural/Social Environment	
Economic Impacts	
Legal and Economic Impacts for MFWP	
Overall impacts (short, medium, long term, and cumulative effects)	
Mitigation needed	
Irretrievable commitments	

Alternative 4: Late fall – early winter season (November 15 – February 15)	
for a limited only name with politics valid for x o day and in the control of the	79
LIUIOZIUM MIM I MYSIUM LIMAMORIMIUM	79
	80
TOOMOTITIO TITIPEOCO	80
Legal and Economic Impacts for MFWP	81
Overall impacts (short, medium, long term, and cumulative effects)	81
Mitigation needed	84
Irretrievable commitments	84
PREPARATION OF ENVIRONMENTAL ASSESSMENT	85
LITERATURE CITED	85
APPENDICES	90
Appendix A: Kuntz. 2004. Bison hunts in North America	9(